



105 Bonnie Drive  
Butler, PA 16002  
724-283-4681  
724-283-5939 (fax)  
www.bwieagle.com

# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® SR PLUS 2.4 GHz RF Transceiver MODEL 36-4050-4B-CFB-DC

### DESCRIPTION

The AIR-EAGLE SR PLUS RF TRANSCEIVER is a four pushbutton transmitter and four LED receiver, in one compact unit. Designed to work with an Air-Eagle SR Receiver. Model 38-2050-FB, located up to 1200 feet away, this unit allows the user to transmit information and then receive, by visual LED status, a confirming signal back that transmission went thru. The Air-Eagle SR PLUS TRX is user-programmable for up to 128 digital addresses and eight network frequencies to allow multiple systems to operate simultaneously in the same area and utilizes spread-spectrum technology to provide the utmost security and reliability.

### APPROVALS

United States (FCC)	OUR-XBEEPRO
Canada (IC)	4214A-XBEEPRO
Europe (CE)	ETSI

### INSTALLATION

DISCONNECT DC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR PLUS TRANSCEIVER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect DC power and control to the proper terminals in your control circuit.

### TERMINAL STRIP WIRING – BOTTOM PCB

1	Not Used	7	Not Used	13	(-) 9-36 VDC INPUT
2	Not Used	8	Not Used	14	(+) 9-36 VDC INPUT
3	Not Used	9	Not Used		
4	Not Used	10	Not Used		
5	Not Used	11	Not Used		
6	Not Used	12	Not Used		



(Model 36-4000-5BFB Pictured)  
Dimensions (with mounting plate) 6.3" L x 4.8" W x 4.3" H

### CONTROLS & INDICATORS

Power/TX LED	Illuminates GREEN when power is applied to the unit. Illuminates RED while any button is depressed and unit is transmitting.
Pushbutton 1 thru 4	Transmits individual button commands to the receiver
LED 1	Illuminates RED when Button #1 command has been received and Relay #1 in the receiver is energized.
LED 2	Illuminates YELLOW when Button #2 command has been received and Relay #1 in the receiver is de-energized
LED 3	Illuminates BLUE when Button #3 command has been received and Relay #2 in the receiver is energized.
LED 4	Illuminates GREEN when Button #4 command has been received and Relay #2 in the receiver is de-energized.

# AIR-EAGLE® SR PLUS

2.4 GHz RF Transceiver

**MODEL 36-4050-4B-CFB-DC**

## FREQUENCY SET-UP

This transceiver is factory programmed to Frequency #1. If you wish to change the frequency, follow the directions below:

- 1) Remove power from unit
- 2) Remove top cover.
- 3) Select desired address and/or network frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

SEL1 (ADDRESS)	Not changeable on this unit – leave as preset by factory			
	Network Address	SW1	SW2	SW3
SEL 2 (SW 1-3):  (NETWORK FREQUENCY)	1	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
	8	CLOSED	CLOSED	CLOSED
SEL2 (SW4)	Reserved for future use			

## SPECIFICATIONS

DC Input	9 – 36 VDC @ 10 Watts
Relay Contacts	SPDT 5 amp @ 120 VAC or 50 VDC
Fuse Protected	1 amp
Transceiver Frequency	2.4 GHz Spread Spectrum
RF Output Power	60 mW
Transceiver Range	Approximately 1200 feet
Transceiver Channels	8 Independent Network Frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Polycarbonate / NEMA 4, 4x, 12 + 13
Operating Temperature	-40° F to +185° F

## REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	36-4052-4B-CFB-DC	
Standard Antenna (Included):		
2.4GHz TNC Portable Antenna (For distances up to 1200 feet*)	49-1201	
Optional Antennas and Accessories – Used to increase range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations		
2.4GHz Thru-Hole Mount Mobile Antenna	49-2201	
2.4GHz Magnetic Mount Mobile Antenna	49-2202	
2.4GHz Omni Directional Antenna	49-3201	
2.4GHz 13dB Yagi Antenna	49-3202	
Flex Coax Cable w/Connectors – Connects external antenna(s) to base unit(s).	49-4000-XX	(XX = # of Feet)
Inline Lightening Arrestor	49-5002	
* = Line of Sight		

## LIMITED WARRANTY STATEMENT

BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

DOCUMENT DATE: 16-Mar-11 / REV.4



105 Bonnie Drive  
Butler, PA 16002  
(724) 283-4681  
Fax (724) 283-5939  
[www.bwieagle.com](http://www.bwieagle.com)